

NANOTECHNOLOGY

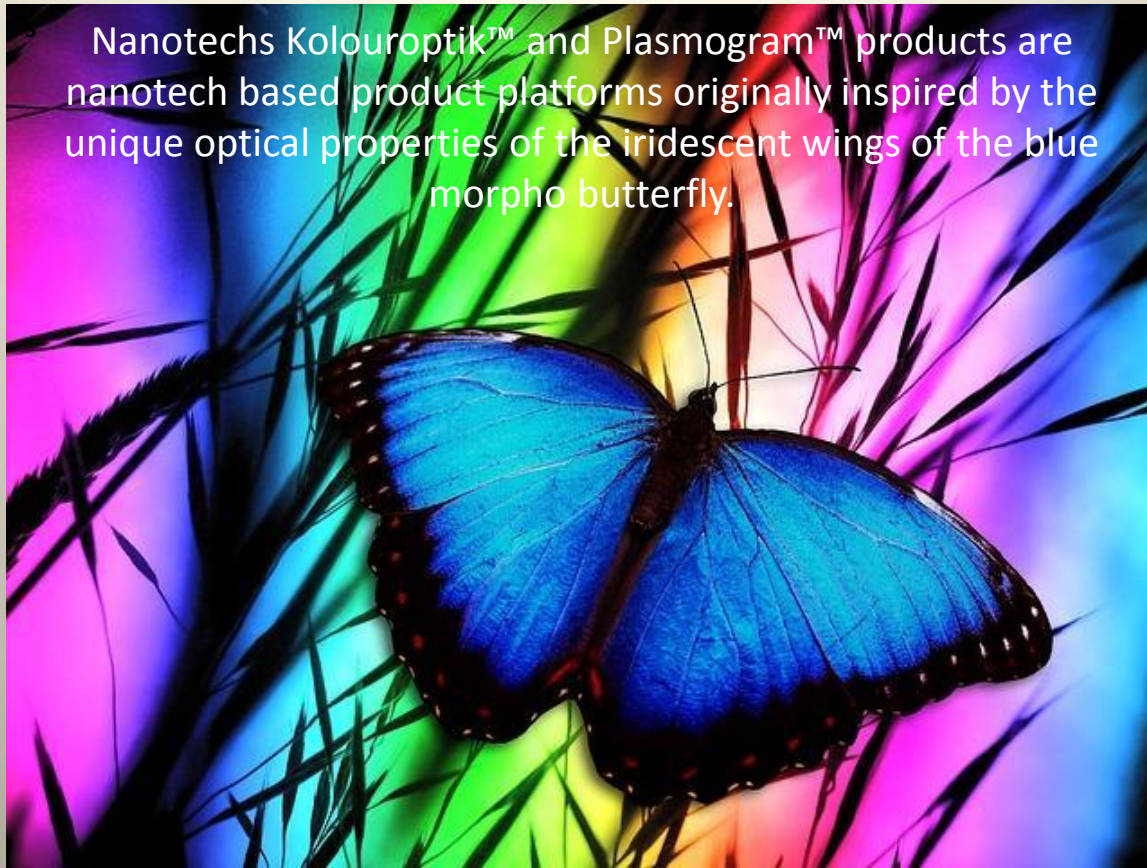
THE PROMISE OF TOMORROW



Abstract

No one may think that nanotechnology will be improved, but when everyone sees what nanotech is capable of, they will want to make sure that it can be improved. If all of the breakthroughs for nanotechnology (invisibility cloak, ultra ever dry, black silicon, etc.) are improved, then life would be about 10 times easier than it is now, even if you had your legs cut off!

Nanotech's Kolouroptik™ and Plasmogram™ products are nanotech based product platforms originally inspired by the unique optical properties of the iridescent wings of the blue morpho butterfly.

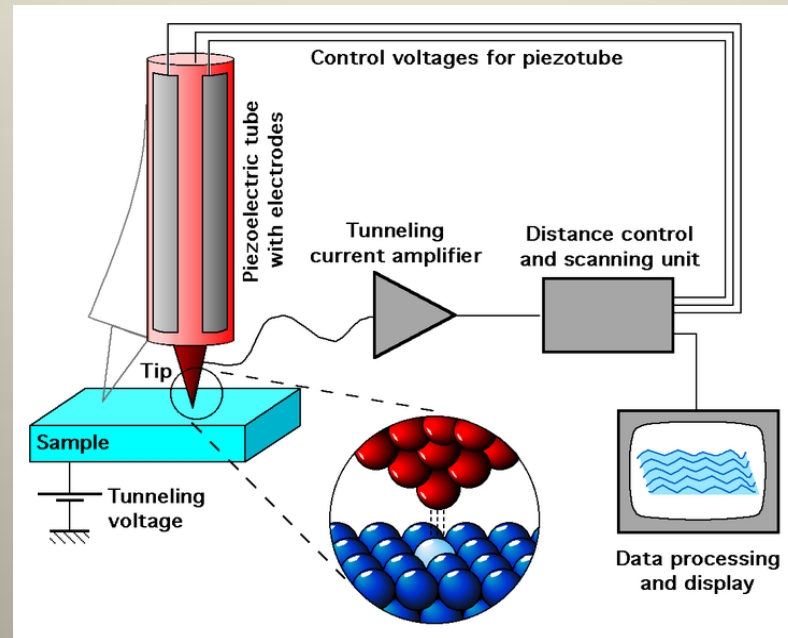


Present Technology and Limitations

Nanotechnology images produce intense, high definition OVD's (optical variable device)that are ideal for brand authentication for distinguishing from counterfeiters things such as currency, documents, and personal identification on consumer electronics. Kolouroptik platforms create unique, easy to authenticate images through interaction of natural light with nano-sized arrays of surface indentation structures which are on the order of a billionth of a meter in size. These nanostructures create vivid color images activated by a simple tilt or rotation with higher resolutions than the best LED displays.

History

Since the 14 century, nanotech has been making life easier and has spent over 200 years blowing our minds. In 1958, the first integrated circuit was created by Jack Kilby, which won the noble peace prize. Richard Feynman gave the very first lecture on engineering/technology in 1959. During 1981, Gerd Binnig and Heinrich Rohrer created the tunneling and scanning microscope.



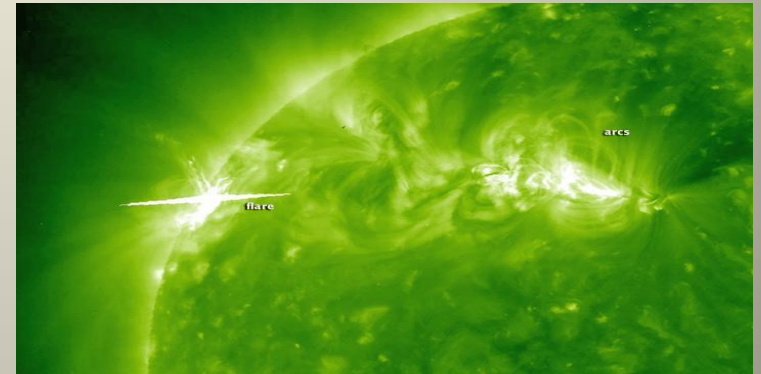
This microscope allowed scientists to look at atoms and small molecules for the first time up close. Sumio Iijima had to share the prize in nanoscience in 2008. Carbon nanotubes are completely made up of carbon, just in a tubular shape. They exhibit singular properties in strength, thermo conductivity, and electricity. The 21st century nanoresearch act was enacted by congress. This provided many things such as programs and assigned agency responsibility.

Breakthroughs

The Japanese invisibility cloak uses carbon nanotubes. Heating, via electrical stimulation between the cloak and its surroundings, causes a steep temperature gradient that bends light away from the wearer.



Nano-flares are a new class of intracellular molecular probes. Several recent papers report the use of nano-flares as novel and potentially very useful probes. These probes combine several unique features such as protection against enzymatic degradation. They also allow the transfection of a cell, which is the delivery of DNA and RNA into cells to study and control gene expression, and the detection and quantification of RNA molecules in living cells.



Silver the germ killer and the black silicon are the best germ killers known to man. Simple as that, they slaughter germs, bugs, bacteria, and fungi anytime and anywhere.



Design Process

My 3 ideas for nanotechnology are not simple, but they are also not impossible.

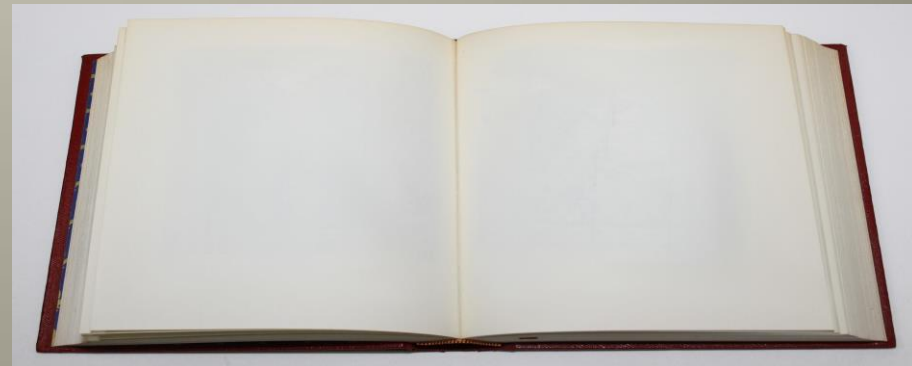
- 1.** A nanotech marker that could write or draw anything in 3-d. (evolution in creativity and entertainment).



- 2.** A nanotech globe that would enable you to click on any place and receive full intel on that location. (evolution in knowledge of world history).



- 3.** A nanotech book that could read aloud and be a training device for beginners. You would be able to click on a word and get a simple meaning and pronunciation. It would also help create an image inside of your mind by playing a short film to go along with the story. It would also help you count using page numbers. (evolution in early education).



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